

Silica sol composition, membrane electrode assembly with proton-exchange membrane, and fuel cell

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Inventor: ONO MICHIO (JP); WARIISHI KOJI (JP); NOMURA KIMIATSU (JP); KIKUCHI WATARU (JP)

Applicant: FUJI PHOTO FILM CO LTD (JP)

Classification:

- international: C08G77/28; C07F7/08; C08G77/00; C08G77/48; C08J5/22; H01B1/06; H01B1/12; H01M2/02; H01M8/02; H01M8/10; C07F7/00; C08G77/00; C08J5/20; H01B1/06; H01B1/12; H01M2/02; H01M8/02; H01M8/10; (IPC1-7): H01M8/10; C07F7/08; C08G77/00; C08J5/22; H01B1/12

- European: C08J5/22B2D; C08G77/04; H01B1/12F

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Also published as:



US2004241522 (A1)

JP2004307814 (A)

EP1463140 (A8)

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Abstract of EP1463140

Provided are a proton-exchange membrane of which the ionic conductivity is high and the methanol crossover is low, and a fuel cell of high power that comprises the proton-exchange membrane. The proton-exchange membrane has a structure of mesogen-containing organic molecular chains and a proton-donating group-containing group covalent-bonding to a silicon-oxygen three-dimensional crosslinked matrix, in which at least a part of the organic molecular chains are oriented to form an aggregate thereof; and the fuel cell comprises the membrane.

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Inventor Name Search Result

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Last Name = ONO

First Name = MICHIO

Application#	Patent#	Status	Date Filed	Title	Inventor Name
<u>09252009</u>	<u>6556531</u>	150	02/16/1999	MULTI-LAYERED HOLOGRAPHIC READ-ONLY MEMORY AND DATA RETRIEVAL METHOD	ONO, MICHIO
<u>09516628</u>	<u>6495067</u>	150	03/01/2000	LIQUID CRYSTAL COMPOUND, LIQUID CRYSTAL MIXTURE OR COMPOSITION, ELECTROLYTE COMPRISING THE SAME, ELECTROCHEMICAL CELL AND PHOTO-ELECTROCHEMICAL CELL CONTAINING THE ELECTROLYTE	ONO, MICHIO
<u>09631385</u>	<u>6376765</u>	150	08/03/2000	ELECTROLYTE COMPOSITION, PHOTOELECTRIC CONVERSION DEVICE AND PHOTO-ELECTROCHEMICAL CELL	ONO, MICHIO
<u>09759363</u>	<u>6727023</u>	150	01/16/2001	ELECTROLYTE COMPOSITION, ELECTROCHEMICAL CELL AND IONIC LIQUID CRYSTAL MONOMER	ONO, MICHIO
<u>09765368</u>	<u>6750352</u>	150	01/22/2001	POLYMERIZABLE MOLTEN SALT MONOMER, ELECTROLYTE COMPOSITION AND ELECTROCHEMICAL CELL	ONO, MICHIO
<u>09933716</u>	<u>6627099</u>	150	08/22/2001	ELECTROLYTE COMPOSITION AND ELECTROCHEMICAL BATTERY USING THE SAME	ONO, MICHIO
<u>09963419</u>	<u>6740807</u>	150	09/27/2001	LIGHT-RECEIVING DEVICE AND IMAGE SENSOR	ONO, MICHIO
<u>10374075</u>	Not	161	02/27/2003	<u>Electrolytic composition and non-</u>	ONO, MICHIO

	Issued			aqueous electrolytic secondary battery	
<u>10374906</u>	<u>6811728</u>	150	02/24/2003	MULTI-LAYERED HOLOGRAPHIC READ-ONLY MEMORY AND DATA RETRIEVAL METHOD	ONO, MICHIO
<u>10620168</u>	<u>6964997</u>	150	07/15/2003	MOLDED ARTICLE FOR INTERIOR PARTS OF A CAR	ONO, MICHIO
<u>10672190</u>	Not Issued	71	09/26/2003	Organic-inorganic hybrid material, organic-inorganic hybrid proton-conductive material and fuel cell	ONO, MICHIO
<u>10806258</u>	Not Issued	41	03/22/2004	Organic-inorganic hybrid proton-conductive membrane, and fuel cell	ONO, MICHIO
<u>10807689</u>	Not Issued	71	03/24/2004	Silica sol composition, membrane electrode assembly with proton-exchange membrane, and fuel cell	ONO, MICHIO
<u>10956337</u>	Not Issued	89	10/04/2004	Process for producing corrugated plate and device for producing corrugated plate	ONO, MICHIO
<u>10956467</u>	Not Issued	41	09/30/2004	Multi-layered holographic read-only memory and data retrieval method	ONO, MICHIO
<u>10968532</u>	Not Issued	61	10/19/2004	Method for producing ion exchanger, ion exchanger, membrane electrode assembly, and fuel cell	ONO, MICHIO
<u>10969530</u>	Not Issued	30	10/20/2004	Compound, and solid electrolyte, proton conductor, membrane electrode assembly and fuel cell comprising the compound	ONO, MICHIO
<u>11448995</u>	Not Issued	25	06/07/2006	Air outlet device for vehicle cabin	ONO, MICHIO
<u>06061432</u>	<u>4289102</u>	150	07/27/1979	ENGINE SPARK TIMING CONTROLLING DEVICE	ONODA, MICHIO
<u>06138572</u>	<u>4337640</u>	150	04/08/1980	KNOCKING SENSOR	ONODA, MICHIO
<u>06166946</u>	<u>4364259</u>	150	07/08/1980	VIBRATION SENSOR FOR AN AUTOMOTIVE VEHICLE ENGINE	ONODA, MICHIO
<u>06173811</u>	<u>4393837</u>	150	07/30/1980	SPARK TIMING CONTROL SYSTEM FOR AN INTERNAL COMBUSTION ENGINE	ONODA, MICHIO
<u>06215720</u>	<u>4385598</u>	250	12/12/1980	ENGINE SYSTEM	ONODA, MICHIO

Inventor Search Completed: No Records to Display.

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Inventor Name Search Result

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Last Name = ONO

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Application#	Patent#	Status	Date Filed	Title	Inventor Name
06451229	4430423	150	12/20/1982	COLOR PHOTOGRAPHIC LIGHT-SENSITIVE MATERIAL	ONO, MICHIO
06478727	Not Issued	166	03/25/1983	RESIN-MOLDED SEMICONDUCTOR DEVICE	ONO, MICHIO
06539781	4984059	150	10/07/1983	SEMICONDUCTOR DEVICE AND A METHOD FOR FABRICATING THE SAME	ONO, MICHIO
06579714	Not Issued	166	02/13/1984	HIGH PACKING DENSITY LEAD FRAME AND INTEGRATED CIRCUIT	ONO, MICHIO
06595195	4587210	250	03/30/1984	COLOR PHOTOGRAPHIC SILVER HALIDE LIGHT-SENSITIVE MATERIAL CONSISTING OF A SPECIFIED HYDROQUINONE DERIVATIVE	ONO, MICHIO
06599358	Not Issued	161	04/12/1984	SILVER HALIDE COLOR PHOTOGRAPHIC LIGHT-SENSITIVE MATERIALS	ONO, MICHIO
06696610	4564586	150	01/30/1985	SILVER HALIDE COLOR PHOTOGRAPHIC LIGHT-SENSITIVE MATERIAL	ONO, MICHIO
06748537	Not Issued	166	06/25/1985	SILVER HALIDE COLOR PHOTOGRAPHIC LIGHT-SENSITIVE MATERIALS	ONO, MICHIO
06760852	4686177	150	07/31/1985	SILVER HALIDE COLOR PHOTOGRAPHIC LIGHT-SENSITIVE MATERIALS	ONO, MICHIO
06833535	4698660	150	02/12/1986	RESIN-MOLDED SEMICONDUCTOR DEVICE	ONO, MICHIO
06890962	Not Issued	166	07/29/1986	HIGH PACKING DENSITY LEAD FRAME AND INTEGRATED CIRCUIT	ONO, MICHIO

<u>06894149</u>	<u>4724280</u>	150	08/07/1986	PACKAGE FOR INTEGRATED CIRCUIT	ONO, MICHIO
<u>06912095</u>	Not Issued	166	09/29/1986	RESIN-MOLDED SEMICONDUCTOR DEVICE	ONO, MICHIO
<u>07009065</u>	Not Issued	166	01/27/1987	SILVER HALIDE COLOR PHOTOGRAPHIC LIGHT-SENSITIVE MATERIALS CONTAINING CYAN DYE FORMING COUPLER	ONO, MICHIO
<u>07044270</u>	<u>4746602</u>	150	04/30/1987	SILVER HALIDE COLOR PHOTOGRAPHIC MATERIAL	ONO, MICHIO
<u>07136518</u>	<u>4892810</u>	150	12/22/1987	SILVER HALIDE COLOR PHOTOGRAPHIC LIGHT-SENSITIVE MATERIAL CONTAINING CYAN DYE FORMING COUPLER	ONO, MICHIO
<u>07185301</u>	<u>4801997</u>	150	04/19/1988	HIGH PACKING DENSITY LEAD FRAME AND INTEGRATED CIRCUIT	ONO, MICHIO
<u>07207929</u>	<u>4903114</u>	250	06/15/1988	RESIN-MOLDED SEMICONDUCTOR	ONO, MICHIO
<u>07216573</u>	<u>4904575</u>	150	07/08/1988	SILVER HALIDE COLOR PHOTOGRAPHIC MATERIAL WITH HETEROCYCLIC FUSED PHENOL COUPLER	ONO, MICHIO
<u>07218789</u>	<u>4983493</u>	150	07/14/1988	DYES FOR HEAT SENSITIVE TRANSFER RECORDING	ONO, MICHIO
<u>07324560</u>	Not Issued	161	03/16/1989	CYAN DYE-FORMING COUPLER AND SILVER HALIDE PHOTOSENSITIVE MATERIAL CONTAINING THE SAME	ONO, MICHIO
<u>07382447</u>	<u>5026634</u>	150	07/20/1989	COLOR LIGHT-SENSITIVE MATERIAL	ONO, MICHIO
<u>07383525</u>	<u>4992801</u>	150	07/24/1989	GLASS ANTENNA DEVICE FOR AN AUTOMOBILE	ONO, MICHIO
<u>07427381</u>	<u>5024924</u>	150	10/27/1989	METHOD FOR PROCESSING SILVER HALIDE COLOR PHOTOGRAPHIC MATERIALS	ONO, MICHIO
<u>07434673</u>	<u>5160780</u>	150	09/19/1989	STRUCTURE FOR INSTALLING MIRROR BASE ON GLASS PLATE AND METHOD FOR INSTALLING MIRROR BASE ON GLASS PLATE	ONO, MICHIO
<u>07489637</u>	<u>5032487</u>	150	03/07/1990	COLOR LIGHT-SENSITIVE	ONO, MICHIO

				MATERIAL	
<u>07584651</u>	Not Issued	166	09/19/1990	SILVER HALIDE COLOR PHOTOGRAPHIC LIGHT-SENSITIVE MATERIAL CONTAINING A CYAN DYE-FORMING COUPLER	ONO, MICHIO
<u>07648894</u>	<u>5210012</u>	150	01/31/1991	SILVER HALIDE COLOR PHOTOGRAPHIC MATERIAL	ONO, MICHIO
<u>07833799</u>	<u>5190852</u>	150	02/12/1992	SILVER HALIDE PHOTOGRAPHIC MATERIAL	ONO, MICHIO
<u>07874682</u>	Not Issued	166	04/28/1992	METHOD FOR INSTALLING MIRROR BASE ON GLASS PLATE	ONO, MICHIO
<u>07884897</u>	<u>5260177</u>	250	05/18/1992	SILVER HALIDE COLOR PHOTOGRAPHIC LIGHT-SENSITIVE MATERIAL	ONO, MICHIO
<u>07889417</u>	<u>5464693</u>	150	05/28/1992	STRUCTURE FOR INSTALLING MIRROR BASE ON GLASS PLATE AND METHOD FOR INSTALLING MIRROR BASE ON GLASS PLATE	ONO, MICHIO
<u>07918612</u>	<u>5236803</u>	150	07/27/1992	COLOR LIGHT-SENSITIVE MATERIAL WITH HYDROQUINONE REDUCING AGENT	ONO, MICHIO
<u>08001613</u>	<u>RE35109</u>	150	01/07/1993	SEMICONDUCTOR DEVICE AND METHOD FOR FABRICATING THE SAME	ONO, MICHIO
<u>08227381</u>	<u>5543279</u>	150	04/14/1994	SILVER HALIDE LIGHT-SENSITIVE MATERIAL	ONO, MICHIO
<u>08227382</u>	Not Issued	166	04/14/1994	HEAT DEVELOPABLE COLOR LIGHT-SENSITIVE MATERIAL	ONO, MICHIO
<u>08384462</u>	Not Issued	161	02/02/1995	STRUCTURE FOR INSTALLING MIRROR BASE ON GLASS PLATE AND METHOD FOR INSTALLING MIRROR BASE ON GLASS PLATE	ONO, MICHIO
<u>08439253</u>	<u>5585231</u>	150	05/11/1995	HEAT DEVELOPABLE COLOR LIGHT-SENSITIVE MATERIAL WITH PYRAZOLOTRIAZOLE CONTAINING DYE	ONO, MICHIO
<u>08544935</u>	<u>5622810</u>	150	10/18/1995	SILVER HALIDE COLOR PHOTSENSITIVE MATERIAL	ONO, MICHIO
<u>08551141</u>	Not Issued	161	10/31/1995	BORON-CONTAINING COMPOUND, ITS POLYMER,	ONO, MICHIO

				CATALYST COMPRISING THE POLYMER AND METALLOCENE COMPOUND, AND PROCESS FOR PRODUCING POLYOLEFIN	
<u>08590323</u>	<u>5736299</u>	150	01/23/1996	SILVER HALIDE COLOR PHOTOGRAPHIC MATERIAL COMPRISING A MAGENTA OR CYAN COUPLER AND A HYDRAZINE COMPOUND	ONO, MICHIO
<u>08603091</u>	Not Issued	166	02/20/1996	HEAT DEVELOPABLE COLOR LIGHT-SENSITIVE MATERIAL	ONO, MICHIO
<u>08695636</u>	<u>5750755</u>	150	08/12/1996	SILVER HALIDE COLOR PHOTOSENSITIVE MATERIAL	ONO, MICHIO
<u>08733719</u>	<u>6127088</u>	150	10/16/1996	HEAT DEVELOPABLE COLOR LIGHT-SENSITIVE MATERIAL	ONO, MICHIO
<u>08736205</u>	<u>5736293</u>	150	10/25/1996	IMAGE FORMING METHOD	ONO, MICHIO
<u>08776777</u>	<u>5869723</u>	150	02/10/1997	IONIC COMPOUND AND OLEFIN POLYMERIZATION CATALYST CONTAINING THE SAME	ONO, MICHIO
<u>08879759</u>	Not Issued	161	06/20/1997	OPTICAL MATERIALS	ONO, MICHIO
<u>08932827</u>	Not Issued	161	09/18/1997	SILVER HALIDE COLOR PHOTOSENSITIVE MATERIAL	ONO, MICHIO
<u>08981545</u>	<u>6121182</u>	150	12/11/1997	POLYOLEFIN PRODUCTION CATALYST AND METHOD OF PREPARING POLYOLEFINS	ONO, MICHIO
<u>09203759</u>	<u>6048637</u>	150	12/02/1998	NONAQUEOUS SECONDARY BATTERY	ONO, MICHIO

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Last Name = WARIISHI

First Name = KOJI

Application#	Patent#	Status	Date Filed	Title	Inventor Name
08124586	5342744	150	09/22/1993	SILVER HALIDE PHOTOGRAPHIC MATERIAL	WARIISHI, KOJI
08216285	5459265	150	03/23/1994	SILVER HALIDE PHOTOGRAPHIC LIGHT-SENSITIVE MATERIAL	WARIISHI, KOJI
08378403	5543529	150	01/26/1995	1-CARBAMOYL-5-HYDOXYPYRAZOLE COMPOUNDS AND SALTS THEREOF	WARIISHI, KOJI
08379209	5556985	150	01/27/1995	PYRAZOLONOXONOL COMPOUNDS	WARIISHI, KOJI
08513184	5665528	150	08/09/1995	SILVER HALIDE PHOTOGRAPHIC MATERIAL CONTAINING DYE	WARIISHI, KOJI
08524462	5609999	150	09/07/1995	SILVER HALIDE COLOR PHOTOGRAPHIC MATERIAL	WARIISHI, KOJI
08532880	5714307	150	09/22/1995	SILVER HALIDE PHOTOGRAPHIC MATERIAL CONTAINING INFRARED ABSORBING COLORANT	WARIISHI, KOJI
08734953	5728832	150	10/23/1996	PHTHALIDE COMPOUND AND RECORDING MATERIAL USING THE SAME	WARIISHI, KOJI
08896954	5879772	150	07/18/1997	INFORMATION RECORDING MEDIUM	WARIISHI, KOJI
08941310	6670475	150	09/30/1997	INFORMATION RECORDING MEDIUM	WARIISHI, KOJI
08947197	6020105	150	10/08/1997	INFORMATION RECORDING MEDIUM	WARIISHI, KOJI
08980304	5853969	150	11/28/1997	SILVER HALIDE PHOTOGRAPHIC MATERIAL CONTAINING INFRARED ABSORBING COLORANT	WARIISHI, KOJI

<u>09026610</u>	<u>5998094</u>	150	02/20/1998	OPTICAL INFORMATION RECORDING MEDIUM	WARIISHI, KOJI
<u>09203759</u>	<u>6048637</u>	150	12/02/1998	NONAQUEOUS SECONDARY BATTERY	WARIISHI, KOJI
<u>09231970</u>	<u>6203876</u>	150	01/15/1999	INFORMATION RECORDING MEDIUM	WARIISHI, KOJI
<u>09313185</u>	Not Issued	161	05/18/1999	INFORMATION RECORDING MEDIUM AND OXONOL COMPOUND	WARIISHI, KOJI
<u>09343275</u>	<u>6406817</u>	150	06/30/1999	CROSSLINKED POLYMER, ELECTROLYTE USING THE POLYMER, AND NONAQUEOUS SECONDARY BATTERY USING THE ELECTROLYTE	WARIISHI, KOJI
<u>09391511</u>	Not Issued	161	09/08/1999	CROSSLINKED POLYMER, ELECTROLYTE, AND PHOTO-ELECTROCHEMICAL CELL CONTAINING THE ELECTROLYTE	WARIISHI, KOJI
<u>09631385</u>	<u>6376765</u>	150	08/03/2000	ELECTROLYTE COMPOSITION, PHOTOELECTRIC CONVERSION DEVICE AND PHOTO-ELECTROCHEMICAL CELL	WARIISHI, KOJI
<u>09933716</u>	<u>6627099</u>	150	08/22/2001	ELECTROLYTE COMPOSITION AND ELECTROCHEMICAL BATTERY USING THE SAME	WARIISHI, KOJI
<u>10024187</u>	<u>6841299</u>	150	12/21/2001	ELECTROLYTE COMPOSITION AND NON-AQUEOUS ELECTROLYTE SECONDARY CELL	WARIISHI, KOJI
<u>10080067</u>	<u>6902850</u>	150	02/22/2002	ELECTROLYTE COMPOSITION, METHOD FOR PRODUCING THE SAME AND NON-AQUEOUS ELECTROLYTE SECONDARY CELL	WARIISHI, KOJI
<u>10374075</u>	Not Issued	161	02/27/2003	Electrolytic composition and non-aqueous electrolytic secondary battery	WARIISHI, KOJI
<u>10431506</u>	Not Issued	41	05/08/2003	Crosslinked polymer, electrolyte, and photo-electrochemical cell containing the electrolyte	WARIISHI, KOJI
<u>10455723</u>	Not	161	06/06/2003	Information recording medium and	WARIISHI, KOJI

	Issued			oxonol compound	
<u>10724232</u>	6849316	150	12/01/2003	INFORMATION RECORDING MEDIUM	WARIISHI, KOJI
<u>10806258</u>	Not Issued	41	03/22/2004	Organic-inorganic hybrid proton-conductive membrane, and fuel cell	WARIISHI, KOJI
<u>10807689</u>	Not Issued	71	03/24/2004	Silica sol composition, membrane electrode assembly with proton-exchange membrane, and fuel cell	WARIISHI, KOJI
<u>10968532</u>	Not Issued	61	10/19/2004	Method for producing ion exchanger, ion exchanger, membrane electrode assembly, and fuel cell	WARIISHI, KOJI
<u>10969530</u>	Not Issued	30	10/20/2004	Compound, and solid electrolyte, proton conductor, membrane electrode assembly and fuel cell comprising the compound	WARIISHI, KOJI
<u>11019177</u>	Not Issued	83	12/23/2004	Information recording medium and oxonol compound	WARIISHI, KOJI
<u>11090993</u>	Not Issued	30	03/26/2005	Compound, and solid electrolyte, proton conductor, membrane electrode assembly and fuel cell comprising the compound	WARIISHI, KOJI
<u>11138352</u>	Not Issued	30	05/27/2005	Silicon-containing compound, composition containing said compound, and insulating material	WARIISHI, KOJI
<u>11218297</u>	Not Issued	30	09/01/2005	Proton-conductive material and method for production thereof, membrane electrode assembly, and fuel cell	WARIISHI, KOJI
<u>11502389</u>	Not Issued	25	08/11/2006	Insulating film-forming composition, insulating film and production method thereof	WARIISHI, KOJI
<u>11515014</u>	Not Issued	30	09/05/2006	Composition, film and producing method therefor	WARIISHI, KOJI
<u>11515818</u>	Not Issued	30	09/06/2006	Film forming composition, insulating film and production process of the insulating film	WARIISHI, KOJI
<u>11522892</u>	Not Issued	30	09/19/2006	Insulating-film forming composition, insulating film and preparation process thereof	WARIISHI, KOJI
<u>11757438</u>	Not Issued	25	06/04/2007	IMAGE RECORDING MATERIAL, PLANOGRAPHIC PRINTING PLATE	WARIISHI, KOJI

				PRECURSOR, AND PLANOGRAPHIC PRINTING METHOD USING THE SAME	
<u>11889228</u>	Not Issued	20	08/10/2007	Image recording material	WARIISHI, KOJI

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Inventor Name Search Result

Your Search was:

Last Name = NOMURA

First Name = KIMIATSU

Application#	Patent#	Status	Date Filed	Title	Inventor Name
<u>08753886</u>	<u>5683850</u>	150	12/02/1996	DIAZO HEAT-SENSITIVE RECORDING MATERIAL COMPRISING HYDROXY COUMARIN AS A COUPLER	NOMURA, KIMIATSU
<u>08859716</u>	<u>5866293</u>	150	05/21/1997	HEAT-SENSITIVE RECORDING MATERIAL	NOMURA, KIMIATSU
<u>09023200</u>	<u>5925489</u>	150	02/13/1998	HEAT-SENSITIVE RECORDING MATERIAL	NOMURA, KIMIATSU
<u>09145345</u>	<u>6017672</u>	150	09/01/1998	HEAT-SENSITIVE RECORDING MATERIAL	NOMURA, KIMIATSU
<u>09328489</u>	<u>6245476</u>	150	06/09/1999	PHOTO-SENSITIVE AND HEAT-SENSITIVE RECORDING MATERIAL	NOMURA, KIMIATSU
<u>09441957</u>	<u>6329116</u>	150	11/17/1999	PYRROLO[1,2-A]PYRIMIDINE COMPOUND AND HEAT-SENSITIVE RECORDING MATERIAL USING THE SAME	NOMURA, KIMIATSU
<u>09684963</u>	<u>6316605</u>	150	10/10/2000	Hydrazone dye	NOMURA, KIMIATSU
<u>10132292</u>	<u>6703345</u>	150	04/26/2002	DIAZONIUM SALT AND HEAT-SENSITIVE RECORDING MATERIAL	NOMURA, KIMIATSU
<u>10636816</u>	<u>7022823</u>	150	08/08/2003	DIAZONIUM SALT, ITS SYNTHESIZING METHOD AND RECORDING MATERIAL	NOMURA, KIMIATSU
<u>10653242</u>	<u>7118844</u>	150	09/03/2003	DIAZONIUM SALT AND THERMAL RECORDING MATERIAL USING THE SAME	NOMURA, KIMIATSU
<u>10807689</u>	Not Issued	71	03/24/2004	Silica sol composition, membrane electrode assembly with proton-	NOMURA, KIMIATSU

				exchange membrane, and fuel cell	
<u>10968532</u>	Not Issued	61	10/19/2004	Method for producing ion exchanger, ion exchanger, membrane electrode assembly, and fuel cell	NOMURA, KIMIATSU
<u>10969530</u>	Not Issued	30	10/20/2004	Compound, and solid electrolyte, proton conductor, membrane electrode assembly and fuel cell comprising the compound	NOMURA, KIMIATSU
<u>11433286</u>	Not Issued	41	05/12/2006	Solid electrolyte, membrane and electrode assembly, and fuel cell	NOMURA, KIMIATSU
<u>11689799</u>	Not Issued	25	03/22/2007	Catalyst Material For Use In Fuel Cell, Catalyst Membrane, Membrane Electrode Assembly and Fuel Cell	NOMURA, KIMIATSU
<u>11766810</u>	Not Issued	16	06/22/2007	Solid Electrolyte, Membrane and Electrode Assembly, and Fuel Cell	NOMURA, KIMIATSU

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Application#	Patent#	Status	Date Filed	Title	Inventor Name
<u>08530426</u>	<u>5651912</u>	150	09/19/1995	DECORATIVE MOLD FOR FORMING CONCRETE SURFACE WITH UNEVEN PATTERN	KIKUCHI, WATARU
<u>08587489</u>	<u>5754526</u>	150	01/17/1996	CHANNEL SWITCHING METHOD AND CHANNEL SWITCHING CONTROLLER	KIKUCHI, WATARU
<u>08755366</u>	<u>5687125</u>	250	11/25/1996	SEMICONDUCTOR MEMORY DEVICE HAVING REDUNDANCY MEMORY CELLS INCORPORATED INTO SUB MEMORY CELL BLOCKS	KIKUCHI, WATARU
<u>09807372</u>	<u>6698249</u>	150	07/16/2001	POROUS GLASS BASE MATERIAL PRODUCTION DEVICE AND METHOD	KIKUCHI, WATARU
<u>10787127</u>	Not Issued	161	02/27/2004	Stacked semiconductor package	KIKUCHI, WATARU
<u>10807689</u>	Not Issued	71	03/24/2004	Silica sol composition, membrane electrode assembly with proton-exchange membrane, and fuel cell	KIKUCHI, WATARU
<u>10973961</u>	Not Issued	25	10/26/2004	Memory system and memory module	KIKUCHI, WATARU
<u>11218297</u>	Not Issued	30	09/01/2005	Proton-conductive material and method for production thereof, membrane electrode assembly, and fuel cell	KIKUCHI, WATARU
<u>11348232</u>	Not Issued	30	02/07/2006	Solid electrolyte, method for producing solid electrolyte, membrane and electrode assembly, and fuel cell	KIKUCHI, WATARU
<u>11531167</u>	Not	30	09/12/2006	STACKED SEMICONDUCTOR	KIKUCHI,

	Issued			PACKAGE	WATARU
<u>11692360</u>	Not Issued	30	03/28/2007	Polymer Electrolyte, Membrane/Electrode Assembly, and Fuel Cell	KIKUCHI, WATARU

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